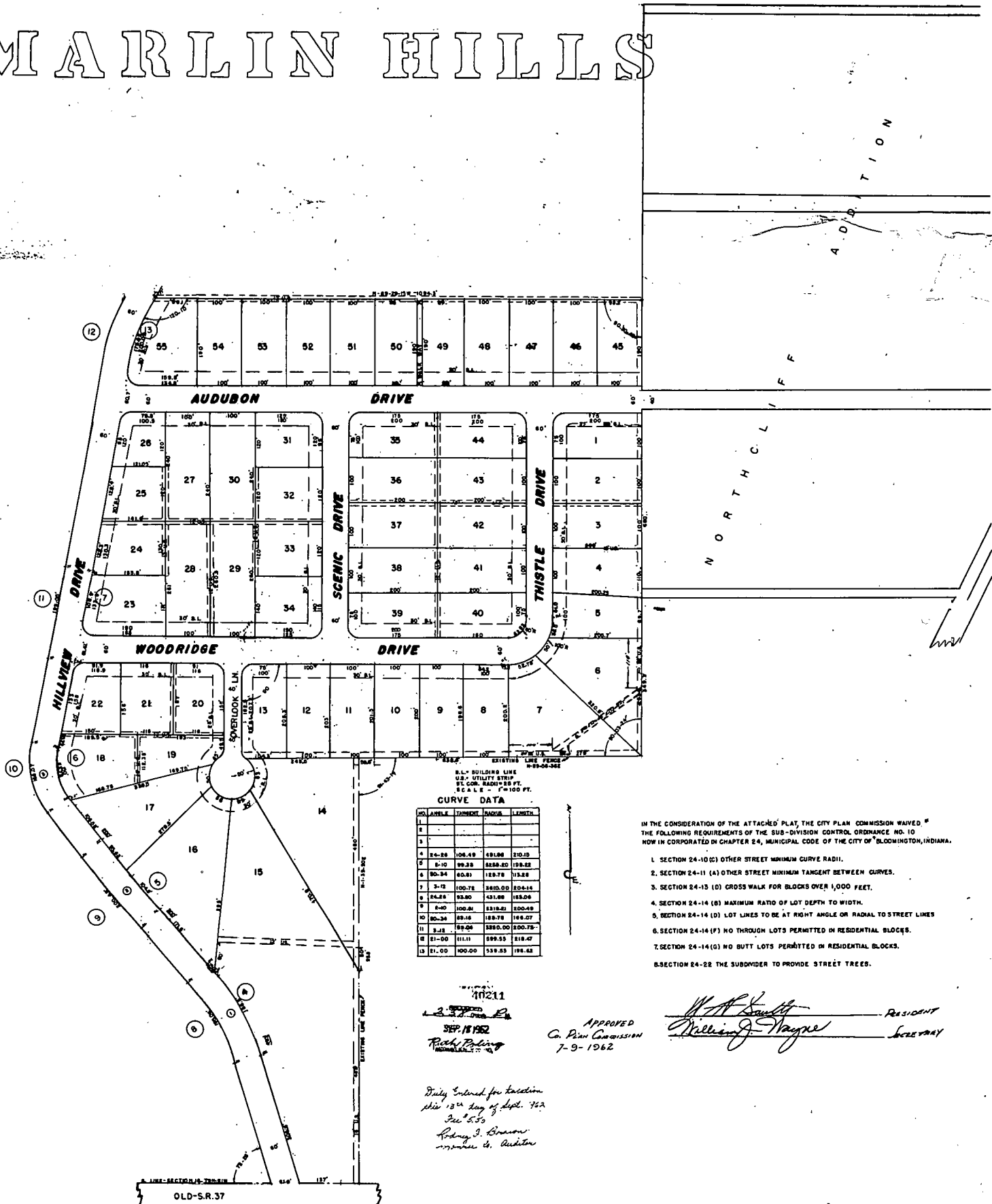


MARLIN HILLS

MARLIN HILLS



ST. NO.	ANGLE	TANGENT	RADIUS	LENGTH
1	90.00	0.00	0.00	0.00
2	90.00	0.00	0.00	0.00
3	90.00	0.00	0.00	0.00
4	90.00	0.00	0.00	0.00
5	90.00	0.00	0.00	0.00
6	90.00	0.00	0.00	0.00
7	90.00	0.00	0.00	0.00
8	90.00	0.00	0.00	0.00
9	90.00	0.00	0.00	0.00
10	90.00	0.00	0.00	0.00
11	90.00	0.00	0.00	0.00
12	90.00	0.00	0.00	0.00
13	90.00	0.00	0.00	0.00
14	90.00	0.00	0.00	0.00
15	90.00	0.00	0.00	0.00
16	90.00	0.00	0.00	0.00
17	90.00	0.00	0.00	0.00
18	90.00	0.00	0.00	0.00
19	90.00	0.00	0.00	0.00
20	90.00	0.00	0.00	0.00
21	90.00	0.00	0.00	0.00
22	90.00	0.00	0.00	0.00
23	90.00	0.00	0.00	0.00
24	90.00	0.00	0.00	0.00
25	90.00	0.00	0.00	0.00
26	90.00	0.00	0.00	0.00
27	90.00	0.00	0.00	0.00
28	90.00	0.00	0.00	0.00
29	90.00	0.00	0.00	0.00
30	90.00	0.00	0.00	0.00
31	90.00	0.00	0.00	0.00
32	90.00	0.00	0.00	0.00
33	90.00	0.00	0.00	0.00
34	90.00	0.00	0.00	0.00
35	90.00	0.00	0.00	0.00
36	90.00	0.00	0.00	0.00
37	90.00	0.00	0.00	0.00
38	90.00	0.00	0.00	0.00
39	90.00	0.00	0.00	0.00
40	90.00	0.00	0.00	0.00
41	90.00	0.00	0.00	0.00
42	90.00	0.00	0.00	0.00
43	90.00	0.00	0.00	0.00
44	90.00	0.00	0.00	0.00
45	90.00	0.00	0.00	0.00
46	90.00	0.00	0.00	0.00
47	90.00	0.00	0.00	0.00
48	90.00	0.00	0.00	0.00
49	90.00	0.00	0.00	0.00
50	90.00	0.00	0.00	0.00
51	90.00	0.00	0.00	0.00
52	90.00	0.00	0.00	0.00
53	90.00	0.00	0.00	0.00
54	90.00	0.00	0.00	0.00
55	90.00	0.00	0.00	0.00

- IN THE CONSIDERATION OF THE ATTACHED PLAT, THE CITY PLAN COMMISSION WAIVED THE FOLLOWING REQUIREMENTS OF THE SUB-DIVISION CONTROL ORDINANCE, NO. 10 NOW IN CORPORATED IN CHAPTER 24, MUNICIPAL CODE OF THE CITY OF BLOOMINGTON, INDIANA.
- SECTION 24-10(C) OTHER STREET MINIMUM CURVE RADII.
 - SECTION 24-11 (A) OTHER STREET MINIMUM TANGENT BETWEEN CURVES.
 - SECTION 24-13 (D) CROSS WALK FOR BLOCKS OVER 1,000 FEET.
 - SECTION 24-14 (B) MAXIMUM RATIO OF LOT DEPTH TO WIDTH.
 - SECTION 24-14 (D) LOT LINES TO BE AT RIGHT ANGLE OR RADIAL TO STREET LINES.
 - SECTION 24-14 (F) NO THROUGH LOTS PERMITTED IN RESIDENTIAL BLOCKS.
 - SECTION 24-14 (G) NO BUTT LOTS PERMITTED IN RESIDENTIAL BLOCKS.
 - SECTION 24-22 THE SUBDIVIDER TO PROVIDE STREET TREES.

SEP. 18 1962
Rich Peling
Recorder

APPROVED
C. P. H. Commission
7-9-1962

RESIDENT
SECRETARY

Daily Entered for taxation
this 13th day of Sept. 1962
Sec. 55
Robert J. Brown
Recorder & Auditor

OLD-S.R.37

MARLIN HILLS ADDITION

I, the undersigned, a licensed civil engineer in the State of Indiana, do hereby certify that the plat shown here is a true representation of the MARLIN HILLS ADDITION, the same being a sub-division of a part of the south half of Section 16; T9N; R1W- in Monroe County, Indiana, and hereby described as follows:- A part of the south half of section 16-T9N; R1W. Beginning at a point that is 654.75 feet east and 1320 feet south of the northeast corner of the southwest quarter of the said section 16; thence running north for 660 feet; thence running north 89 degrees-29 minutes-15 seconds west for 1094.30 feet; thence running south 30 degrees-30 minutes-45 seconds west for 93.40 feet; thence running south 9 degrees-40 minutes-45 seconds west for 636.12 feet; thence running south 12 degrees-52 minutes-45 seconds west for 352.25 feet; thence running south 37 degrees-41 minutes-15 seconds east for 273.24 feet; thence running south 39 degrees-51 minutes-15 seconds east for 377.37 feet; thence running south 13 degrees-25 minutes-15 seconds east for 411.99 feet and to the south line of the said section 16; thence running east for 137 feet; thence running north 1 degrees-39 minutes-50 seconds east for 958 feet; thence running north 89 degrees-56 minutes-36 seconds east for 638.4 feet; thence running north for 349.3 feet, and to the place of beginning. Containing in all 38.11 acres, more or less.

John T. September
Civil Engineer & Surveyor

This Sub-Division is designated and known as Marlin Hills Addition. All streets shown on the recorded plat are hereby dedicated to the public. Said property, and all lots within said Addition, and the use thereof by the present and future owners and occupants, shall be subject to the following restrictions which shall run with the land, to-wit:-

(1) FRONT YARD LINES:

Shown on this plat are the building lines, between which lines and the street property lines, no building, or parts thereof, shall be erected or maintained.

(2) UTILITY EASEMENTS

There are shown on the plat, strips of ground that are hereby reserved for the use of public utilities, on or over which no permanent structure shall be erected or maintained.

(3) BUILDINGS

Only one (1) single family dwelling, with a garage appurtenant thereto, may be erected or maintained on each lot as shown by the recorded plat, said family dwelling to be used for residence purposes only. The ground floor area of the main structure of any one story residence, exclusive of open porches, breezeways and garages, shall not be less than 1400 square feet. The dwellings of more than one (1) story in height the ground floor area shall not be less than 900 square feet. "Floor Area" shall be measured from outside to outside of exterior wall finish.

(4) USE

No building, or any part thereof, erected or maintained in this sub-division shall be used for business or commercial purposes of any kind. No lot shall be used except for residential purposes. No structure of a temporary character, trailer, basement, tent, shack, garage, barn or other out buildings, shall be used on any lot as a residence, either temporarily or permanently. No lot shall be used for the raising of vegetable gardens or other agriculture products.

(5) DUMPING

No lot shall be used or maintained as a dumping ground for rubbish, trash, garbage or other waste material, and such items shall not be kept except in sanitary containers. All incinerators or other equipment for the storage or disposal of such material shall be kept in a clean and sanitary condition. Each dwelling shall have an inside gas fired incinerator.

(6) SEWAGE

No individual sewage disposal system shall be permitted on any lot, or part thereof, unless such system is located, constructed and equipped in accordance with the standards and requirements of the Indiana State Board of Health. Approval of such system shall be obtained from the aforesaid authority.

(7) ANIMALS

No animals, livestock or poultry of any kind shall be raised, bred, or kept on any lot, except that dogs, cats or other household pets may be kept, provided that they are not kept, bred or maintained for any commercial purposes.

(8) OTHER RESTRICTIONS

There shall be no sub-division of any lot or lots, nor any sale thereof in parcels, except a portion of a lot may be sold to an adjoining owner, if no new lot is to be created. No lot shall be divided to make two (2) or more lots. No manufacturing, noxious, illegal or offensive activity shall be carried on upon any lot, or part thereof, nor shall anything be done thereon which may be or may become an annoyance or a nuisance to the neighborhood or occupants thereof.

(9) ENFORCEMENT OF RESTRICTIONS

Enforcement shall be by proceedings at law, or in equity, against any person or persons violating or attempting to violate an covenant, either to restrain violation or to recover damages, and the right herein shall inure to the owners of the several lots in this sub-division and to their grantees and assigns; and they shall be entitled to such relief without being required to show any damage of any kind to any such owner by or through any such violation or attempted violation. Invalidation of any of these covenants by judgement or court order shall in no wise affect any of the other provisions which shall remain in full force and effect.

Indiana Stock and Investment Corporation the Owner of the real estate hereinabove described hereby acknowledge the execution of the above and foregoing plat to be known as MARLIN HILLS FIRST ADDITION, the same being a part of Section 16-T9N; R1W- in Monroe County, Indiana, and said corporation hereby dedicates the streets or roads shown on said plat for the use of the public.

In Witness Whereof, Indiana Stock and Investment Corporation has caused its corporate seal to be affixed and this plat to be executed and attested by its officers who are duly authorized to do so this 10th day of September 1962.

INDIANA STOCK AND INVESTMENT CORPORATION

ATTEST:

BY: Donald L. Stewart, President
(Donald L. Stewart, President)

F. J. Vanmeter, Secretary
(F. J. Vanmeter, Secretary)

STATE OF INDIANA)
COUNTY OF MONROE) SS:

Before me a Notary Public in and for said County and State this 10th day of September 1962, personally appeared INDIANA STOCK AND INVESTMENT CORPORATION by Donald L. Stewart personally known to me as president of said Corporation and F. J. Vanmeter personally known to me as Secretary of said Corporation, and acknowledged the execution of said plat by Donald L. Stewart as President of the Corporation and the attestation of said plat by F. J. Vanmeter as Secretary of said Corporation for and on behalf of said Corporation.

Witness my hand and notarial seal this 10th day of September 1962.

My Commission expires January 11, 1965

James H. Ferguson
James H. Ferguson, Notary Public.

MARLIN HILLS ADDITION

I, the undersigned, a licensed civil engineer in the State of Indiana, do hereby certify that the plat shown here is a true representation of the MARLIN HILLS ADDITION, the same being a sub-division of a part of the south half of Section 16; T9N; R1W- in Monroe County, Indiana, and hereby described as follows:- A part of the south half of section 16-T9N; R1W. Beginning at a point that is 654.75 feet east and 1320 feet south of the northeast corner of the southwest quarter of the said section 16; thence running north for 660 feet; thence running north 89 degrees-29 minutes-15 seconds west for 1094.30 feet; thence running south 30 degrees-30 minutes-45 seconds west for 93.40 feet; thence running south 9 degrees-40 minutes-45 seconds west for 636.12 feet; thence running south 12 degrees-52 minutes-45 seconds west for 352.25 feet; thence running south 37 degrees-41 minutes-15 seconds east for 273.24 feet; thence running south 39 degrees-51 minutes-15 seconds east for 377.37 feet; thence running south 13 degrees-25 minutes-15 seconds east for 411.99 feet and to the south line of the said section 16; thence running east for 137 feet; thence running north 1 degrees-39 minutes-50 seconds east for 958 feet; thence running north 89 degrees-56 minutes-36 seconds east for 638.4 feet; thence running north for 349.3 feet, and to the place of beginning. Containing in all 38.11 acres, more or less.

John T. Sapperton
Civil Engineer & Surveyor

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(9) ENFORCEMENT OF RESTRICTIONS

Enforcement shall be by proceedings at law, or in equity, against any person or persons violating or attempting to violate an covenant, either to restrain violation or to recover damages, and the right herein shall inure to the owners of the several lots in this sub-division and to their grantees and assigns; and they shall be entitled to such relief without being required to shown any damage of any kind to any such owner by or through any such violation or attempted violation. Invalidation of any of these covenants by judgement or court order shall in no wise affect any of the other provisions which shall remain in full force and effect.

Indiana Stock and Investment Corporation the Owner of the real estate hereinabove described hereby acknowledge the execution of the above and foregoing plat to be known as MARLIN HILLS FIRST ADDITION, the same being a part of Section 16-T9N; R1W- in Monroe County, Indiana, and said corporation hereby dedicates the streets or roads shown on said plat for the use of the public.

In Witness Whereof, Indiana Stock and Investment Corporation has caused its corporate seal to be affixed and this plat to be executed and attested by its officers who are duly authorized to do so this 10th day of September 1962.

INDIANA STOCK AND INVESTMENT CORPORATION

ATTEST:

BY: *Donald L. Stewart, President*
(Donald L. Stewart, President)

F. J. Vanmeter, Secretary
(F. J. Vanmeter, Secretary)

STATE OF INDIANA)
COUNTY OF MONROE) SS:

Before me a Notary Public in and for said County and State this 10th day of September 1962, personally appeared INDIANA STOCK AND INVESTMENT CORPORATION by Donald L. Stewart personally known to me as president of said Corporation and F. J. Vanmeter personally known to me as Secretary of said Corporation, and acknowledged the execution of said plat by Donald L. Stewart as President of the Corporation and the attestation of said plat by F. J. Vanmeter as Secretary of said Corporation for and on behalf of said Corporation.

Witness my hand and notarial seal this 10th day of September 1962.

My Commission expires
January 11, 1965

James H. Ferguson
James H. Ferguson, Notary Public.

REAL ESTATE SALES AND PURCHASE AGREEMENT

THIS AGREEMENT, entered into this 5th day of October, 1961, by and between Wylie Marlin and Kathryn Marlin, his wife, Elizabeth Marlin, unmarried, and of legal age, Ross Marlin and Masie Marlin, his wife, hereinafter called SELLERS and Indiana Stock and Investment Corporation, hereinafter called BUYERS, WITNESSETH:

1. That if BUYERS shall make the payments and perform the covenants hereinafter mentioned and on their part to be made and performed; SELLERS hereby sell and covenant and agree to convey to BUYERS, free of all incumbrances, except the lien of the second installment of taxes for the year 1961, payable in November, 1962, and such other liens as set out by BUYERS, with no authorization of SELLERS, the following described real estate in Monroe County, Indiana, to-wit:

The Northeast quarter of the Southwest quarter of Section 16, Township 9 North, Range 1 West, containing 40 acres; — 40 AC

Also, the West one-half of the Northwest quarter of the Southeast quarter of Section 16, Township 9 North, Range 1 West, containing 20 acres; — 20 AC

Also, the Southeast quarter of the Southwest quarter of Section 16, Township 9 North, Range 1 West, excepting therefrom the following described tract, to-wit: A part of the Southeast quarter of the Southwest quarter of Section 16, Township 9 North, Range 1 West, bounded and described as follows, to-wit: Beginning at the Southwest corner of said Southeast quarter of the Southwest quarter of said Section 16; running thence East on the South line thereof 260 feet, more or less, and to the center of the public highway now known as the Bloomington-Gospert Pike; running thence in a Northwesterly direction on and along the center of said highway to the West boundary line of said Southeast quarter of the Southwest quarter of said Section 16; thence South on said West boundary line 260 feet, more or less, and to the place of beginning, containing 3/4 of an acre, more or less; — 39.25 AC

Also, that part of the Northwest quarter of the Northeast quarter of Section 21, Township 9 North, Range 1 West, lying North of "Old State Road No. 37" and west of the half Section line; — 10 AC ?

Also, the West one-half of the Southwest quarter of the Southeast quarter of Section 16, Township 9 North, Range 1 West. — 20 AC

Containing in all 104 acres, more or less;

Subject to all easements and public and private rights of way, as set out in Exhibit "A".

2. BUYERS promise and covenant to pay to SELLERS, as purchase price for the said real estate the total sum of \$60,000.00 to be paid in the following manner, to-wit:

a. \$5,000.00 cash in hand, upon the execution of this contract, the receipt of which is hereby acknowledged by SELLERS; balance of \$55,000.00 to be paid at the rate of \$3,000.00 per month, including interest at the rate of 6% per annum beginning November 1, 1961, and a like payment on the 1st day of the month for 15 months thereafter, with the entire unpaid balance due and payable on or before the 1st day of March, 1963. It is understood and agreed that the monthly payments shall first be applied to pay the interest due at time of each payment and the balance then applied in reduction of the principal amount due. The BUYERS shall have the privilege at any time of paying any sum or sums in addition to the payments herein required upon the consideration, and it is understood and agreed that such pre-payment shall stop the accrual of interest on the amount so paid, as of the date of such payment.

3. BUYERS further promise and agree to pay the second installment of taxes for the year 1961, due and payable in November, 1962, and all subsequent taxes.

4. BUYERS shall have the right to enter upon the real estate to survey and inspect the premises, but SELLERS shall retain possession until the entire purchase price be paid, including the right to reside thereon. It is understood that in the event purchase price be paid sooner than December 31, 1962, SELLERS shall still have the right to reside in the residence until such date, or final payment date, whichever is later.

39.25
3.00
102.25

41
20
40
39.25
59.25
102.25
102.25
20.00

Total 122.25 AC

PEAT - 11/100

It is understood and agreed that SELLERS shall during the term of this agreement have the right to remove fixtures, small farm buildings, flowers and shrubs from the premises and shall be under no obligation to maintain the structural improvements thereon. It is further understood that the loss or destruction of the structural improvements located upon the real estate from whatever cause, shall in no way modify or vitiate this agreement, it being agreed that the value thereof is not a factor in the purchase price hereunder and any insurance proceeds from loss shall be the property of SELLERS and shall not be deducted from the purchase price. In the event the improvements are destroyed or damaged to the extent that a mortgage cannot be obtained by SELLERS or BUYERS in the sum of \$12,500.00 on said premises, the balance due on purchase price shall be paid off at \$3,000.00 a month after March 1, 1963.

6. It is understood and agreed that during the course of this agreement, SELLERS by mortgage the subject real estate in any amount up to \$12,500.00 and in such event BUYERS will cooperate in any way in the execution of such a mortgage, and in such event, BUYERS will assume the balance due upon such mortgage and deduct such balance from the final payment hereunder.

7. SELLERS shall deliver to BUYERS, for inspection by its Attorney, the abstract of Title to the above described real estate within 30 days of the execution of this agreement and shall take any steps reasonably necessary to secure merchantability of the title thereof for Sub-division purposes including a quiet title suit if required by BUYERS.

8. At the time of the consummation of this agreement, BUYERS agree to execute a written undertaking that any sub-division of the real estate shall include the name "Marlin" and to give to SELLERS the opportunity to purchase any three lots in such sub-division at one-half of the market price before the lots go on general sale but in the event that the SELLERS shall not build on said lots in two (2) years they shall be offered to the BUYERS at the original purchase price.

9. It is further understood that the following penalties and forfeitures shall attach upon the failure by BUYERS to make payments as called for hereunder.

a. In the event any payment shall be more than 15 days late, an added $\frac{1}{2}\%$ interest per annum shall be charged on the unpaid balance during the period of such delinquency.

b. In the event BUYERS shall be \$12,000.00 or more and four (4) months delinquent in the payments called for in this agreement, SELLERS may elect to declare this contract forfeited; in the event of such forfeiture all payments made by BUYERS shall be retained by SELLERS and SELLERS shall have the right to own and possess the real estate free of any claim by BUYERS, except that in the event at any time prior to May 1, 1963, SELLERS shall sell the real estate to a third party for any price \$60,000.00 or above; SELLERS shall refund to BUYERS one-half the payment so retained by SELLERS. SELLERS shall not arbitrarily refuse to enter into such a sale. Notice of intention to declare a forfeiture shall be given to BUYERS by SELLERS by registered mail to BUYERS at its principal office at least 10 days prior to the date of such forfeiture.

10. SELLERS shall have the right to plant, cultivate and harvest crops for the year 1962, unless the BUYERS shall have paid the full purchase price by June 1, 1962.

11. The payment shall be made to the accounts of the SELLERS at the Citizens First National Bank of Bloomington on the 1st day of each month during said contract.

IN WITNESS WHEREOF, the parties have hereunto set their hands this 5th day of October, 1961.

Myrtle Marlin
Myrtle Marlin

Kathryn Marlin
Kathryn Marlin

Elizabeth Marlin
Elizabeth Marlin

Ross H. Marlin
Ross Marlin

Maxie Marlin
Maxie Marlin (SELLERS)

INDIANA STOCK AND INVESTMENT CORPORATION

By: Donald B. Stewart, Pres.

(BUYERS)

EXHIBIT "A"

1. Subject to Easement in favor of Donald Hansen and Louise Hansen, and N. U. Hill and Margaret C. Hill, as set forth in deed executed by Anna K. Marlin to them, dated December 30, 1957, and recorded on page 536 of Deed Record 125 of the records of the County Recorder of Monroe County, Indiana.
2. Subject to Anchor Permit in favor of Public Service Company of Indiana, Inc., executed by John Marlin and Anna K. Marlin, on February 16, 1951, and recorded on page 45 of Deed Record 110 of the records of the County Recorder of Monroe County, Indiana.
3. Subject to all public highways.
4. Subject to an easement to the Indiana Bell Telephone Company dated August 21, 1953, recorded on page 546 of Miscellaneous Record 15 of the records of the County Recorder of Monroe County, Indiana.
5. Subject to an easement for water line executed by Anna K. Marlin to Edward Hardin dated March 30, 1956, and recorded in the office of the records of the County Recorder of Monroe County, Indiana.
6. Subject to an easement for water line executed by John Marlin and Anna Marlin to the City of Bloomington dated June 16, 1950, and recorded on page 42 of Miscellaneous Record 27, of the records of the County Recorder of Monroe County, Indiana.

Mr/ Robert J. Cooney
Re: Bloomington PWS
Main Extensions

-2-

July 26, 1962

the City of Bloomington was being prepared and would show the information we wanted. Are these maps available yet?

Very truly yours,

A handwritten signature in cursive script, reading "George G. Fassnacht". The signature is written in dark ink and is positioned below the typed name.

George G. Fassnacht, Chief
Water Supply Section
Division of Sanitary Engineering

GGF/fht

Encl.

cc: John T. Stapleton ✓

STATE OF INDIANA

Address Reply to:

Indiana State Board of Health
1330 West Michigan Street
Indianapolis, Indiana



State Board of Health

July 26, 1962

Mr. Robert J. Cooney
City Engineer
City Hall
Bloomington, Indiana

Dear Sir:

Re: Main Extensions (Marlin Hills Addn?)
Bloomington Public Water Supply

Attached is John Stapleton's print submitted on July 23 and your copy of our letter to him. If you folks in Bloomington accept these main extensions and inspect the work before it is accepted into your distribution system, we have no particular desire to process the project in our office. Anything in the nature of a feeder main ought to come through here, however. This applies only to water main extensions from your city system and does not apply to other subdivision requirements that might be processed by our Sewage or General Sanitation Sections.

If this print has a North arrow I fail to recognize it. I have no idea where this extension connects to your distribution system. There is nothing on the print to indicate adequate water and pressure. While Class 150 and 250 Cast Iron pipe is shown there is no indication of type of joint. Cover is inferred at 30 inches which I doubt is enough for absolute protection in your area. No specifications for pipe laying, bedding on rock, testing or disinfection are included.

As I said above, we have no objection to main extensions if you check all these details. We will not issue approvals on any construction unless the contract documents contain all these details.

In February of last year we wrote Paul Stutzman, then City Engineer, asking for an up-to-date distribution system map that would show at least your feeder lines. He replied that a new master plan of

STATE OF INDIANA

Address Reply to:

Indiana State Board of Health
1330 West Michigan Street
Indianapolis, Indiana



State Board of Health

September 17, 1962

Hon. Mary A. Dunlap, Mayor
and Board of Public Works
122 S. Walnut Street
Bloomington, Indiana

Dear Mayor Dunlap:

Re: Proposed Water Main Extensions
Marlin Hills Subdivision
Bloomington Public Water Supply

You are hereby notified that the State Health Commissioner of the State of Indiana has, this 17th day of September, 1962, approved the plans and specifications for the above indicated project.

The work includes the construction of approximately 990 feet of 12-inch cast iron water mains from the treatment plant northwest to Old State Road 37, approximately 1900 feet of 8-inch cast iron pipe north and west in Hillview Drive to Audubon Drive, and approximately 3600 feet of looped 6-inch cast iron pipe east of Hillview Drive to serve 55 lots.

These plans and specifications, certified by John T. Stapleton, Registered Engineer, Bloomington, were submitted for approval August 10, 1962.

This approval shall become void if construction is not started before October, 1963. Any fundamental changes in the plans and specifications which might affect operation, supply, or public health must be submitted to this Board for review and approval.

Sincerely,

A. C. OFFUTT, M.D.
STATE HEALTH COMMISSIONER
INDIANA STATE BOARD OF HEALTH

Approval WS-688

JAJ/fht

cc: John T. Stapleton, Engr.
Lester Thornton, Supt.

Hon. Mary A. Dunlap, Mayor
and Board of Public Works
Bloomington, Indiana
Re: Marlin Hills S.D. W.S.

-2-

September 17, 1962

cc: (continued)
Robt. J. Cooney, City Engineer
Public Service Commission
Attn: Engineering Division
C. H. Canham, San. Engr.

STATE OF INDIANA

Address Reply to:

Indiana State Board of Health
1330 West Michigan Street
Indianapolis, Indiana



State Board of Health

July 26, 1962

John T. Stapleton, Civil Engineer
Court House - Rm. 12
Bloomington, Indiana

Dear Mr. Stapleton:

Re: Main Extensions (Marlin Hills Addn?)
Bloomington Public Water Supply

On July 23, 1962, Donald F. Stewart left two copies of your print covering a main extension from Old State Road 37 to loop through Audubon, Thistle, Woodridge, and Scenic Drives. We understood he was owner of the subdivision but he left no address so we will communicate with you.

We have no objection to construction of these 6-inch loops fed by 8-inch pipe if there is adequate source of water at the point of the 8-inch pipe connection and if this construction meets the standards of the Bloomington water department.

You have not given us enough information to locate the subdivision in question nor have you included specifications or design of construction and materials that would permit issuance of an approval.

Very truly yours,

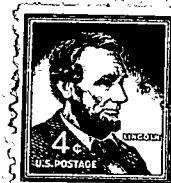
George G. Fassnacht, Chief
Water Supply Section
Division of Sanitary Engineering

GGF/fht

cc: Robt. J. Cooney, City Engineer

DEPARTMENT OF ENGINEERING

CITY OF BLOOMINGTON
BLOOMINGTON, INDIANA



John T. Stapleton
County Surveyor
Court House
Bloomington, Indiana

Attorney James Ferguson appeared in behalf of the Indiana Stock and Investment Corporation requesting service to Marlin Hills First Addition. City Attorney Baker moved, seconded by City Engineer Cooney the approval of the Marlin Hills Subdivision consisting of fifty-five (55) lots as recommended by the City Planning Commission ~~as recommended by the City Planning Commission~~ by letter dated June 18, 1962 with the following understanding relative to the water main installation. That the Indiana Stock and Investment Corporation be permitted to install a twelve (12)

inch water main from the existing facilities at the City pumping station to a point in the right-of-way of old State Road 37 North, which twelve (12) inch line will be tied into the present six (6) inch line in Old State Road 37 North thereafter eight (8) inch lines and six (6) inch lines shall be installed as shown on the plat which is filed with the City Engineer; 2. Indiana Stock and Investment Corporation agrees that at such time as it extends its subdivision north and west ~~or north or west~~ to include the area or any part thereof north and west or north or west of the proposed subdivision as presented as Marlin Hills consisting of fifty-five (55) lots, it will extend the water lines east in North Cliff Drive with a six (6) inch line to the present six (6) inch line along Old State Road 37 North, when this is completed the City will reimburse Indiana Stock and Investment Corporation to the extent of the difference between an eight (8) inch line and a twelve (12) inch line required from the existing facilities to the location in State Road 37 North and this difference to be obtained now by alternate bids; the City to be reimbursed for this sum by any person, firm, or corporation extending the water line beyond the lands of Indiana Stock and Investment Corporation or any other extension using this water line; motion unanimously carried.

Attorney James Ferguson appeared in behalf of the Indiana Stock and Investment Corporation requesting service to Marlin Hills First Addition. City Attorney Baker moved, seconded by City Engineer Cooney the approval of the Marlin Hills Subdivision consisting of fifty-five (55) lots as recommended by the City Planning Commission ~~as recommended by the City Planning Commission~~ by letter dated June 18, 1962 with the following understanding relative to the water main installation. That the Indiana Stock and Investment Corporation be permitted to install a twelve (12)

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Hickson

June 18, 1962

To The Honorable Mayor and The
Board of Public Works and Safety
Bloomington, Indiana

Dear Board Members:

At the meeting of The City Plan Commission held on June 14, 1962, the attached plat of the proposed "Hicklin Hills" subdivision was presented for the consideration and recommendation of the Commission with respect to the extension of City Water into the proposed subdivision. The land in question is located just North of the Griffey Creek water plant and Old State Road No. 37.

In the Commission's consideration of the attached plat the following requirements of Chapter 24, of the "Municipal Code of the City of Bloomington, Indiana, 1957", as amended were waived as to this plat, to-wit:

1. Section 24-10-(c) Other street minimum curve radii.
2. Section 24-11-(a) Other street minimum tangent between curves.
3. Section 24-13-(d) Cross walk for blocks over 1,000 feet.
4. Section 24-14-(b) Maximum ratio of lot depth to width.
5. Section 24-14-(d) Lot lines to be at right angle or radial to street lines.
6. Section 24-14-(f) No through lots permitted in residential blocks.
7. Section 24-14-(g) No butt lots permitted in residential blocks.
8. Section 24-22 The subdivider to provide street trees.

Except for the above stated waivers the subdivider is to comply with all other provisions of Chapter 24 of said municipal code as amended.

The Commission recommends that the subdivider provide two bonds. One for all improvements in the subdivision except Hillview Drive between Woodridge and Old State Road No. 37. The second bond for a longer period of time to cover only Hillview Drive improvements between Woodridge and Old State Road No. 37.

With the above stated conditions the attached plat is approved for the extension of City Water Mains into the subdivision, and the Commission recommends that the subdivider be permitted to make said extensions.

Respectfully submitted,

THE CITY PLAN COMMISSION

Harvard A. Clark, Secretary

MDC/enc

E

Some Basic Design Criteria For Sewers - Bloomington, Indiana

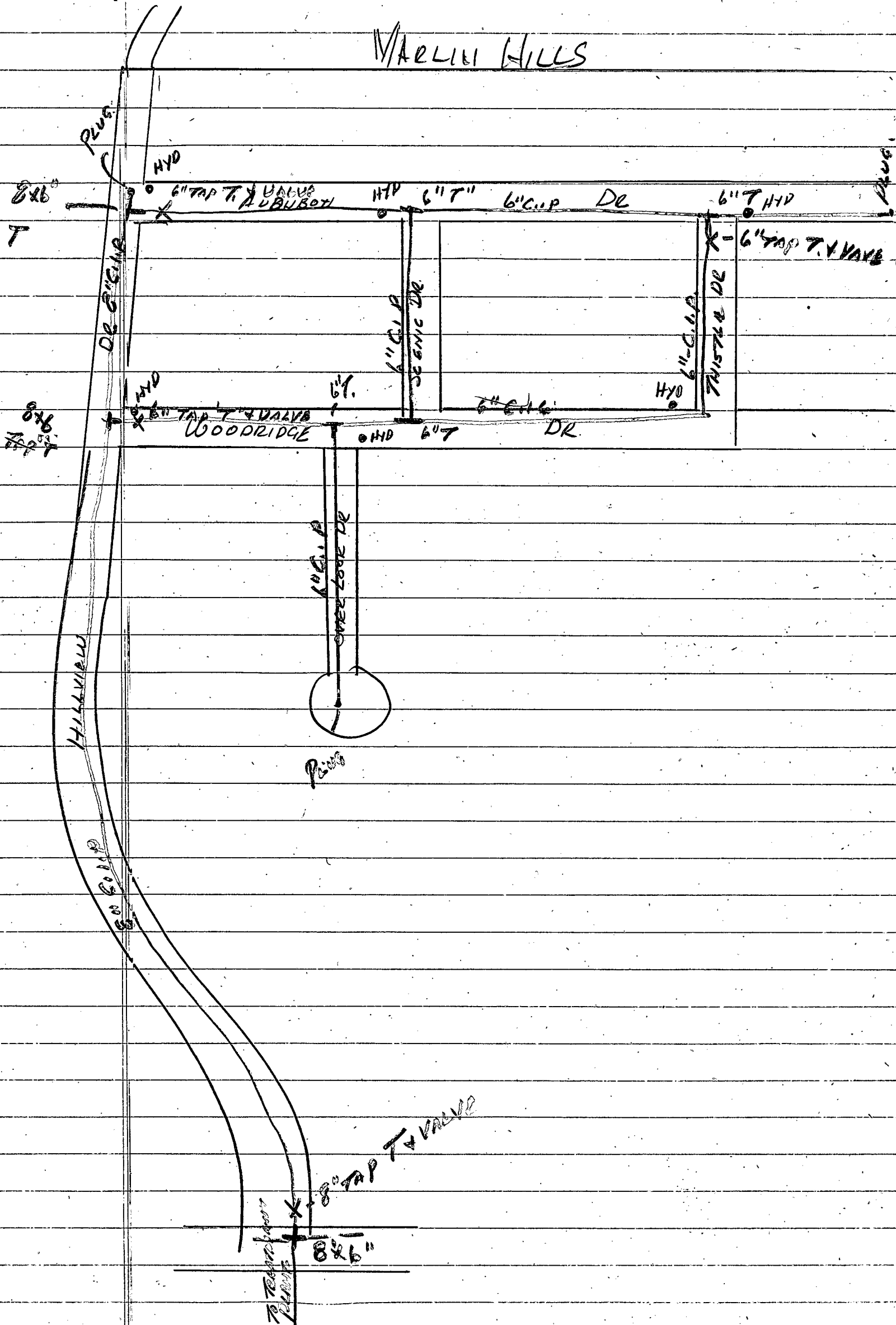
1. All sewer plans for sewers to be incorporated into the city sanitary system shall be submitted to this office a sufficient time prior to proposed construction to give us a chance to review plans for compatibility with adjacent sewers etc. Plans for all sewers longer than 300 feet or larger than 8" will have to be sent to the Indiana State Board of Health for their review and approval. We may request that 8" sewers less than 300 feet be approved by the State if we feel it desirable.
2. Following the State Board of Health requirements, we have adapted the policy of requiring all sewers proposed to be connected to and incorporated into the city sanitation system be a minimum of 8", having a velocity of no less than 2 fps and with a manhole at the terminus for cleaning purposes.
3. All vitrified sewers shall have factory made joints of plasticized polyvinylchloride resin material.
4. Manholes are not to be tapped unless given written approval to do so by the City Engineer after he has determined that it is impossible to tap downstream of the manhole.
5. If the sewer proposed to be tapped has been provided with "Y's" within the limits of the property lines the house sewer shall be connected at the "Y". The only exception is where the "Y" is more than 100 feet measured along the adjacent property line from the near face of the structure. Information as to the location of the "Y" is available in this office and should be sought prior to beginning work or at the time of plan submittal. If the sewer tap is not uncovered at the location given, the contractor shall uncover the sewer for a distance of 3 feet each way from the given point. If tap is not found after uncovering this 6 foot length, this department shall be contacted and one of our personnel will visit the site within an hour after the call and if he finds no evidence that the "Y" is within the excavation, he will authorize a new tap. All taps will be made with the approved saddle.
6. All sewer work shall be completely exposed for inspection and whatever assistance needed by the inspector should be given by the contractor. All house sewers should follow a good line and grade to insure maximum flow. The centerline of the sewer should not deviate more than 3 inches from a centerline drawn between two points 50' apart.
7. All backfill in area anticipated to be used within 2 years for vehicular traffic shall be backfilled with granular material. This applies to sewer and house connections within right-of-way.
8. Reducers shall not be used in main line sewers. Size of pipe changes should be made only at manholes.
9. House sewers shall be installed by bell excavation method or with 4" of No. 11 or No. 12 stone bedding under pipe and minimum of 1 inch bedding under bell.

10. All sewer contractors working in the public right-of-way must have proof of bond and insurance on file in this office prior to application for permits.
11. All manholes shall be built concentrically unless otherwise approved by the City Engineer and covers shall be similar to Neenah #R1015 with "B" type lid (540#) for street manholes and #R1110 with "B" type lid (265#) for lawn or easement areas.
12. The design criteria for storm sewers to be accepted by the city should be based on (1) 4" per hour rate for the individual structures and drainage areas 1 acre or less; (2) 3" per hour rate for laterals handling 10 acres or less; (3) 2½" per hour rate for all other sewers, unless specified to be larger by the State Board of Health.
13. Since the sewers in the city are a separate systems, no storm or surface drainage may be directed into the sanitary sewers. Patio drains and roof drains of any size and window well drains over 2" shall not be tied into the sanitary system.

The above are only a small part of the criteria which the designer will be using in his design, however they do establish most of the policy for design deemed necessary by the city. This list will be amended and addendums sent to designers periodically.

VA 55-362

MARLIN HILLS



A part of the Southwest quarter of the Southeast quarter of Section 16, Township 9 North, Range 1 West and a part of the Northwest of the Northeast quarter of Section 21, Township 9 North, Range 1 West. Beginning at a point that is 654.75 feet East and 1669.3 feet South of the Northwest corner of the Northwest quarter of the Southeast quarter of said Section 16; thence running South over and along a established fence for 1125.15 feet and to the center line of old State Road 37; thence running over and along said center line of old State Road 37, the following courses and distances: South 58 degrees 11 minutes West for 100 feet; South 65 degrees 23 minutes West for 100 feet; South 86 degrees 25 minutes West for 100 feet; North 69 degrees 29 minutes West for 100 feet; North 58 degrees 19 minutes West for 200 feet; North 60 degrees 23 minutes West for 144.12 feet, and to the half (1/2) Section line; thence running North 0 degrees and 50 minutes East over and along a existing fence line for a distance of 1008.20 feet; thence running North 88 degrees 36 minutes East over and along a existing fence line and its extension for a distance 638.8 feet; and to the place of beginning. Containing in all 16.703 acres, more or less.

Part of Section 16, Township 9 North, Range 1 West, beginning at the Northwest corner of the Northeast quarter of the Southwest quarter of Section 16, Township 9 North, Range 1 West, thence running South over and along the West line of the Northeast quarter of the Southwest quarter of Section 16 and the West line of the Southeast quarter of the Southwest quarter of Section 16 to a point Two Hundred and Sixty feet North of the Southwest corner of the Southeast quarter of the Southwest quarter, thence running South 45 degrees East for a distance of 367.9 feet and to a point on the South line of Section 16, 260 feet East of the Southwest corner of the Southeast quarter of the Southwest quarter. Thence running East over and along the South line of Section 16 for a distance of 106.35 and to the South half mile post being an existing line fence; thence North over and along said line fence, North 0 degrees 50 minutes East for a distance of 961 feet and to an existing line fence, thence running North 88 degrees 36 minutes East over and along an existing line fence for a distance 638.80 feet; thence North 1669.3 feet to a point on the East and West half mile line that is 654.75 feet East of the Center line of said section, thence West over and along the East West half mile line to the center of the section; thence continuing West over and along the East and West half mile line and to the place of beginning.

Indiana Stock and Investment Corporation the owners of the real estate hereinabove described hereby acknowledges the execution of the above and foregoing plat to be known as MARLIN HILLS FIRST ADDITION, the same being a sub-division of a part of _____

and said corporation hereby ^{dedicates} ~~designates~~ the streets or roads shown on said plat for the use of the public.

In Witness Whereof, Indiana Stock and Investment Corporation has caused its corporate seal to be affixed and this plat to be executed and attested by its officers ^{who are} ~~there unto~~ duly authorized to do so this _____ day of May, 1962.

INDIANA STOCK AND INVESTMENT CORPORATION

ATTEST:

BY: _____
(Donald L. Stewart, President)

(F. J. VanMeter, Secretary)

STATE OF INDIANA)
) SS:
COUNTY OF MONROE)

Before me a Notary Public in and for said County and State this _____ day of May, 1962, personally appeared INDIANA STOCK AND INVESTMENT CORPORATION by Donald L. Stewart personally known to me as president of said Corporation and F. J. VanMeter, personally known to me as secretary of said Corporation, and acknowledge the execution of said plat by Donald L. Stewart as president of the Corporation and the attestation of said plat by F. J. VanMeter as secretary of said Corporation for and on behalf of said Corporation.

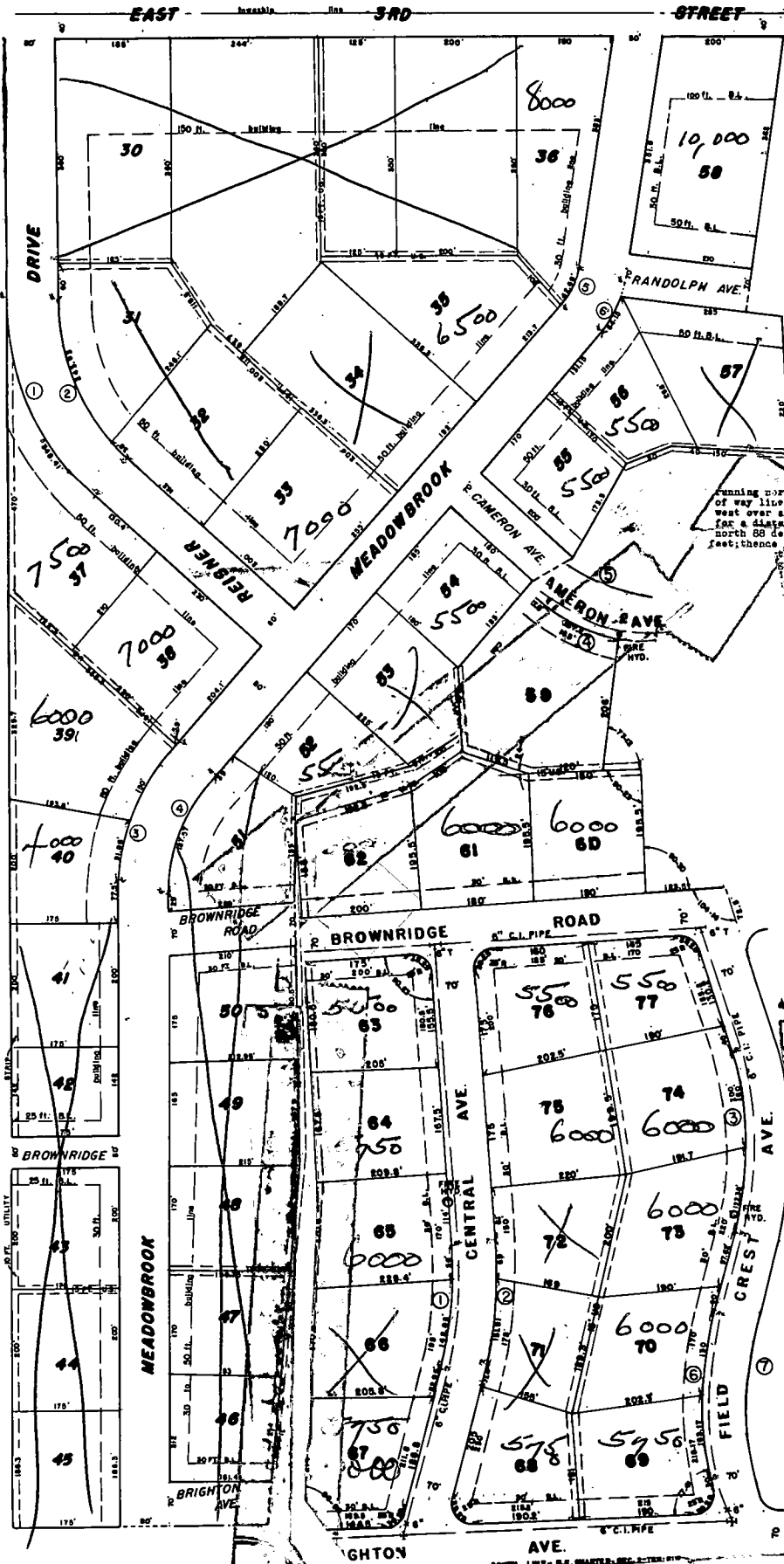
Witness my hand and notarial seal this _____ day of May, 1962.

James H. Ferguson, Notary Public

My Commission expires
January 11, 1965.

HOOSIER ACRES 3RD. ADDITION

COST OF 15000.00
+ NOT LESS THAN 1400 Sq. in Area
+ 900 ft



NO.	ANGLE	TAN.	RADIUS
1	46-00	185.81	418.9
2	46-00	185.81	418.9
3	46-28	186.08	424.36
4	46-28	186.08	424.36
5	38-04	22.00	74.8
6	38-04	45.73	154.11

I, the undersigned, a licensed civil engineer in the State of Indiana, do hereby certify that the above shown plat is a true representation of the Hoosier Acres 3rd Addition, the same being a sub-division of a part of the northeast quarter of section 2-T8N, R17E, and 1st Monroe County, Indiana, and hereby described as follows:-
Beginning at a point that is 545.5 feet east and 40 feet south of the northwest corner of the said northeast quarter, said point being on the south right of way line of State Highway number 46; thence running south 0 degrees-31 minutes east for 2438 feet; thence running south 88 degrees-27 minutes east for 409.62 feet; thence running north 5 degrees-32 minutes east for 625.20 feet; thence running north 1 degree-00 minutes west for 418 feet; thence running north 2 degrees-16 minutes west for 155 feet; thence running north 75 degrees-48 minutes east for 192.5 feet; thence running north 59 degrees-16 minutes east for 100 feet; thence running north 1 degree-36 minutes west for 105 feet; thence running north 42 degrees-16 minutes east for 185 feet; thence running north 56 degrees-58 minutes east for 72.80 feet; thence running north 29 degrees-30 minutes east for 173.5 feet; thence running north 69 degrees-50 minutes east for 80 feet; thence running north 88 degrees-31 minutes east for 190 feet; thence running north 3 degrees west for 228 feet; thence running north 30 degrees-30 minutes west for 83.7 feet; thence running north 6 degrees-49 minutes east for 362 feet and to the south right of way line of State Highway number 46; thence running north 88 degrees-27 minutes west over and along the said south right of way line of State Highway number 46 for a distance of 640 feet; thence running south for 350 feet; thence running north 88 degrees-27 minutes west for 325 feet; thence running south for 10 feet; thence running south 43 degrees-28 minutes west for 188.7 feet; thence running south 46 degrees-32 minutes west for 67.7 feet; thence running south 30 degrees-30 minutes west for 116.5 feet; thence running north for 1 to the said south right of way line of State Highway number 46; thence running north 88 degrees-27 minutes west over and along the said south right of way line of State Highway number 46 for a distance of 265 feet, and to the place of beginning. Containing acres, more or less.

John T. Seppert
Civil Engineer.

HOOSIER ACRES THIRD ADDITION. All streets shown on the plat, said property, and all lots within said addition, and the occupants, shall be subject to the following restrictions:

1. lines and the street lines no building, or parts thereof,

in this sub-division, including porches, bay windows, eaves, feet from the side and rear property lines of said lot. ner, this restriction shall be inoperative as regards to as lying between and being common to the several lots fence is built on such lots.

it are hereby reserved for the use of public utilities, or maintained.

urtenant thereto, may be erected or maintained on each lot used for residence purposes only.

cept these restrictions, no other restrictions shall be placed upon the use of any residence, exclusive of open porches, breezeways, windings of more than one (1) story in height the ground area, shall be measured from outside to outside of

a sub-division shall be used for business or commercial use, except for the use of a residence, exclusive of open porches, breezeways, windings of more than one (1) story in height the ground area, shall be measured from outside to outside of

, shall be permitted on side lot lines between the front

rubbish, trash, garbage or other waste material, and such incinerators or other equipment for the storage or literary condition.

any lot or part thereof, unless such system is located, and authority.

ad, bred or kept on any lot, except that dogs, cats or other ad, bred or kept on any lot, except that dogs, cats or other

is thereof in parcels, except a portion of a lot may d, lot shall be divided to make two (2) or more lots. any lot or part thereof, nor shall anything be done ad occupants thereof.

persons violating or attempting to violate any covenant o, fence to the owners of the several lots in this sub- alief without being required to show any damage of any

is no rise affect any of the other provisions which ad all persons claiming under them for a period of the shall be automatically extended for successive the then owners of the lots has been recorded,

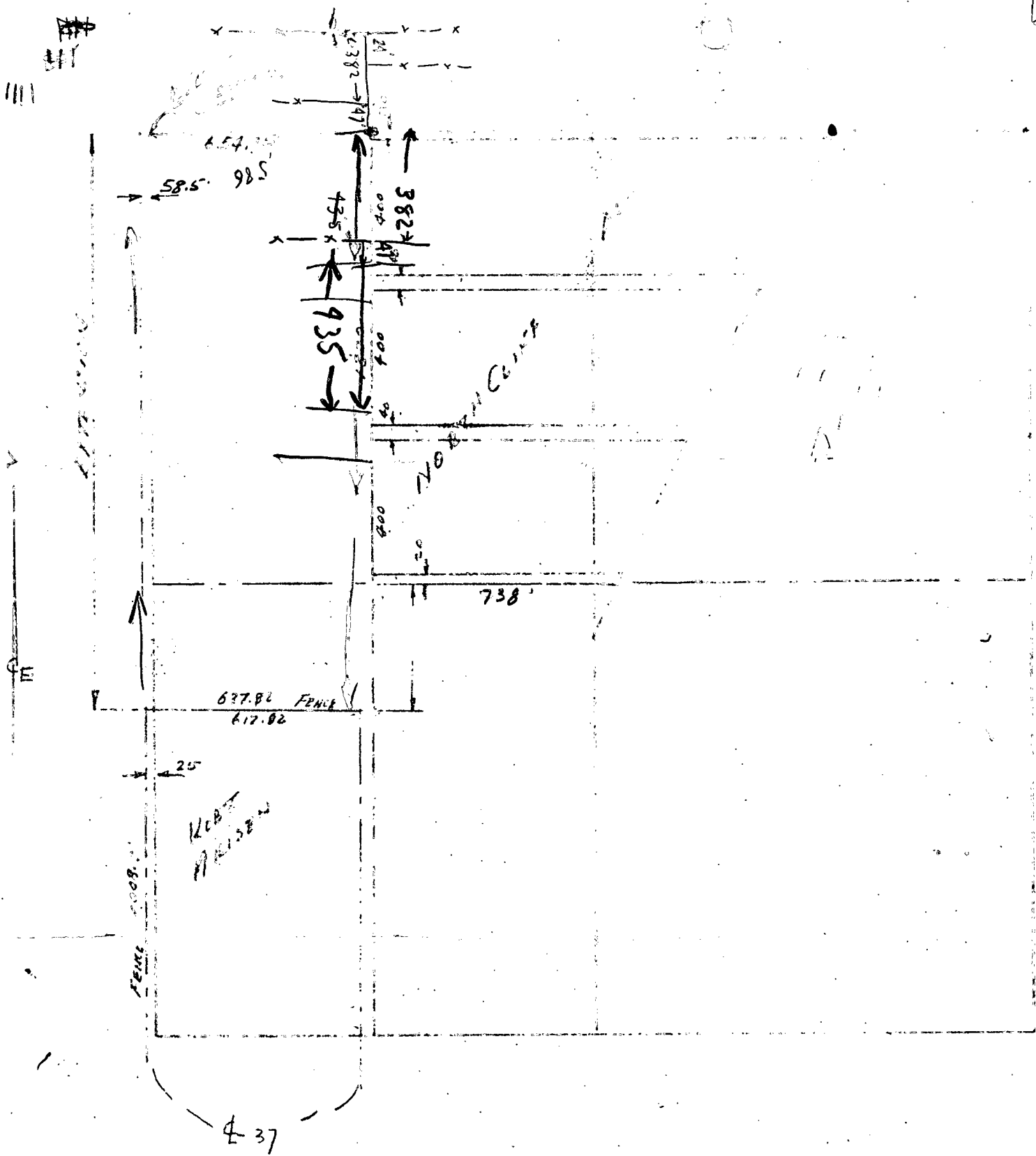
knowledge the execution of the above and foregoing gion of a part of the northeast quarter of the streets or roads shown on said plat

SEE BACK PAGE

Indiana Stock and Investment Corporation

Indiana Stock and Investment Corporation by Donald L. Stewart, me Personally known to be To be President of said Corporation and F.V. U or Meter, personally known to be to be Secretary of said Corporation and acknowledged the execution and attestation of said plat Brandon Schaff of said Corporation

STATE OF INDIANA SS
COUNTY OF MONROE
Before me, a Notary Public, in and for said County and State, this 25th day of April, 1958, personally appeared *Donald L. Stewart*, unmarried and of legal age, and acknowledged the execution of the above and foregoing plat of HOOSIER ACRES THIRD ADDITION to be *his* voluntary act and deed, and for the uses and purposes therein stated.
Witness my hand and Notarial seal this 25th day of April, 1958
My commission expires: September 17, 1961.
APPROVED: MONROE COUNTY PLAN COMMISSION
By *John T. Seppert* President
By *Frederick J. Brown* Secretary
APPROVED: MONROE COUNTY BOARD OF COMMISSIONERS
By *William Brashers* Member
By *Wm. H. Hitts* Member
By *Walter A. Duncan* Member
This Approval is for the Plat Only and Does Not Constitute Acceptance of Streets or Roads in Said Sub-Division.
Duly entered for taxation this 25th day of April, 1958
Frederick J. Brown
Auditor of Monroe County, Indiana.
B. J. Donnell
Stewart
President
Attest:
F. J. van Meter
Secretary



639.3
638.8
.5

58.60
15.93
42.67
41.93
.77

382
47
429
435
864
60
600
424
240
1664
349
1315

STA	BEAR	DIST	COS	LAT		SIN	P		TAN	DMD
				NORTH	SOUTH		EAST	WEST		
"I"										
	EAST	137.00'	0.000 0000	Σ	Σ	1.000 0000	137.00	Σ		
J	N 00° 50' E	961.00	0.999 8942	960.90	Σ	0.014 5439	13.98	Σ	0.0145 488	
K	N 88° 36' E	638.80'	0.024 4322	15.61	Σ	0.999 7015	638.61	Σ	40.91 031	
L	North	349.30	1.000 0000	349.30	Σ	0.000 0000	Σ	Σ		
A				1986.11	1931.59		1365.85	1281.00		
				DOUBLE 57.52	AREA		84.85			

[illegible]

STA	BEAR	DIST	COS	LAT		SIN	LONG		TAN	DMD
				NORTH	SOUTH		EAST	WEST		
E										
	505.58W	352.25	0.994 5825	\sum	350.34	0.103 9499	\sum	36.62	0.104 5270	
F										
	544.36E	273.24	0.712 0260	\sum	194.55	0.702 1531	191.86		0.986 173	
G										
	542.26E	377.37	0.738 0629	\sum	278.52	0.674 7319	254.62	\sum	0.914 189	
"H"										
	518.00E	419.99	0.951 0565	\sum	399.43	0.309 0170	129.78	\sum	0.324 913	
"I"										
				DOUBLE	AREA					

46°-46'

G-H 377.37

NS

278.52

258.49

20.03

E 274.94

254.62

20.32

COS

0.684

9711

SIN

0.728

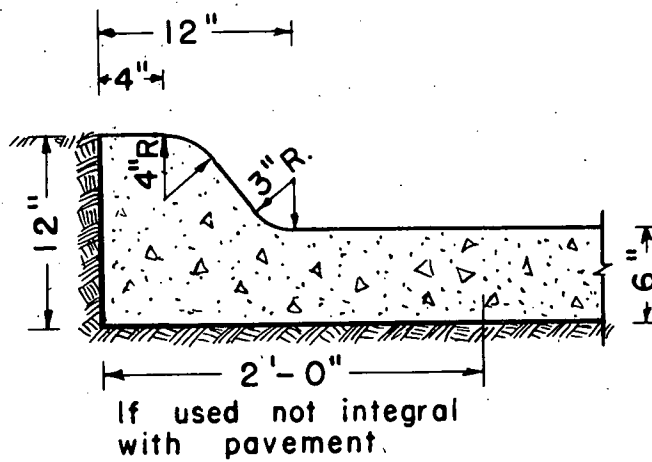
5703

Figure 2

Subdivision Control Ordinance

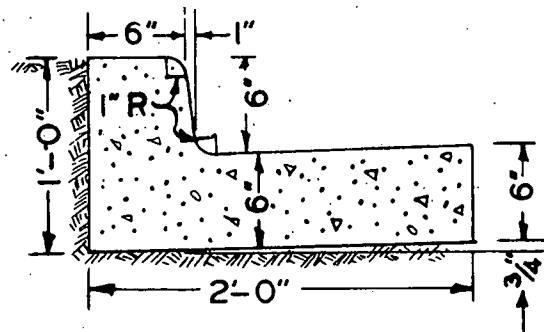
Curb and Gutter Detail – Types A., and B.
Using Portland Cement Concrete

A.



INTEGRAL OR ROLLED CURB GUTTER

B.



COMBINED CURB & GUTTER

MARLIN HILLS

CURVE #7 - ANGLE = $\frac{3-12}{2} = \frac{1-36}{2}$

TANGENT = ~~100 FT~~ 100.72 FT

RADIUS = ~~3580 FT~~ 3610 FT

DEF. - 0-10-24

0-0-48

0-1-12

0-1-36

0/0 = 1.009

CHORD LENGTHS = ~~47.10 FT~~ 49.82 FT

LENGTH = 204.14 FT

CURVE #8

ANGLE = $\frac{24-26}{2} = \frac{12-13}{2}$

RADIUS = 431.86

R-tan $\frac{1}{2} I$

TANGENT = 93.50 FT

DEF. - 3-3-15

6-6-30

9-9-45

12-13-00

CHORD LENGTHS = 46.00 FT

LENGTH = 185.06 FT

CURVE #9

ANGLE = $\frac{2-10}{2} = \frac{1-05}{2}$

RADIUS = 5318.21

TANGENT = 100.31 FT

DEF. - 16-15

32-30

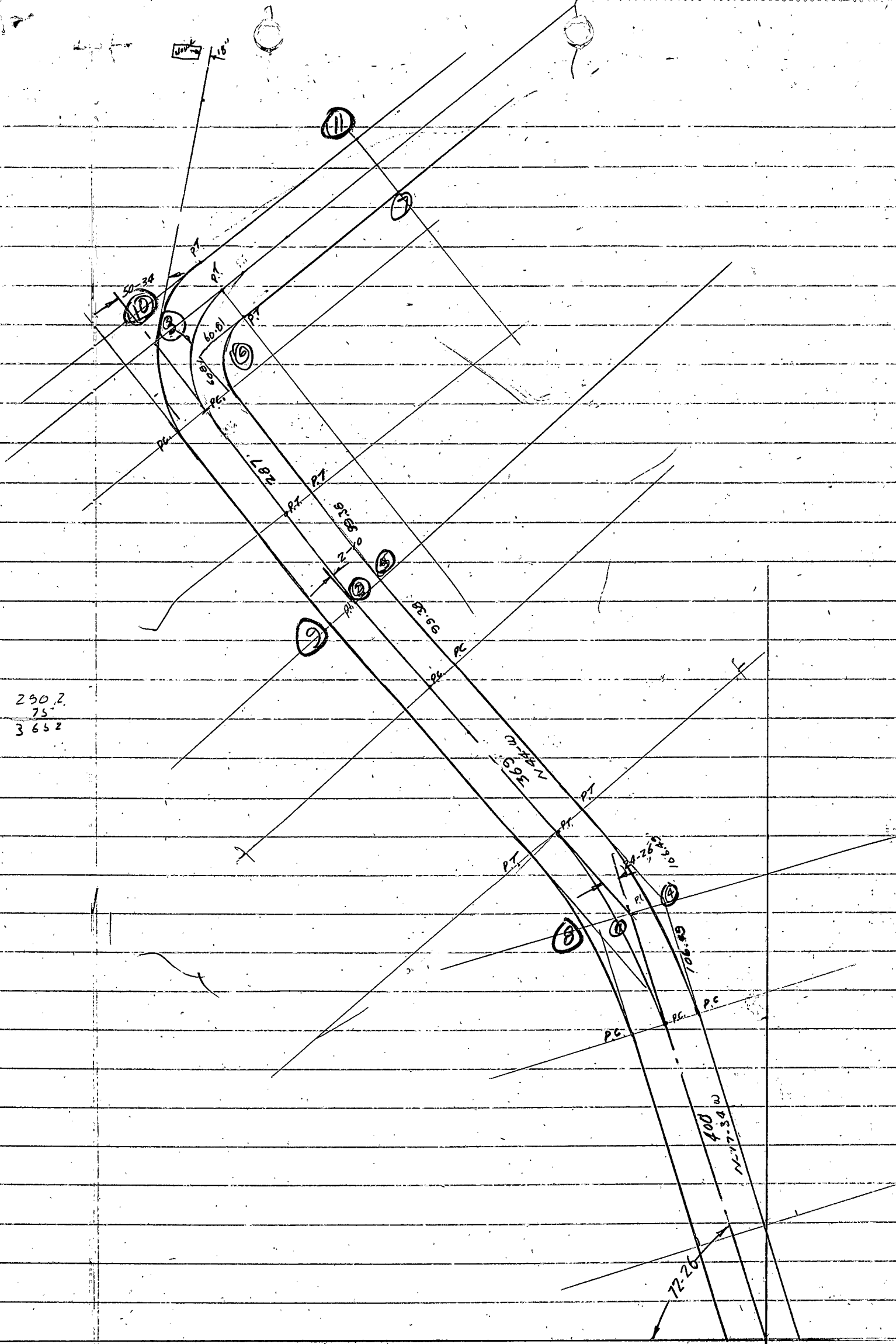
48-45

1-05-00

CHORD LENGTHS = 48.92 FT

LENGTH = 200.49 FT

290.2
75
3652



$$\begin{array}{r} 539.55 \\ 60.90 \\ \hline 599.55 \end{array}$$

3541

$$\begin{array}{r} 599.55 \\ 3541 \\ \hline 239820. \\ 299775. \\ 179865 \\ \hline 1123006.53 \end{array}$$

0.456

4-12-63

MARLIN HILLS - 2ND ADD.

CURVE # 1 - ANGLE = $\frac{10-16}{2} = 5-08$

TANG. = 100. FT.

RADIUS = 1113.10 FT.

DEF. 1-17

2-34

3-51

5-08

CHORD LENGTH = 53.40

CURVE LENGTH

CURVE #2 ANGLE = $\frac{10-16}{2} = 5-08$

RADIUS 1073.10'

TANG. = 96.40 FT.

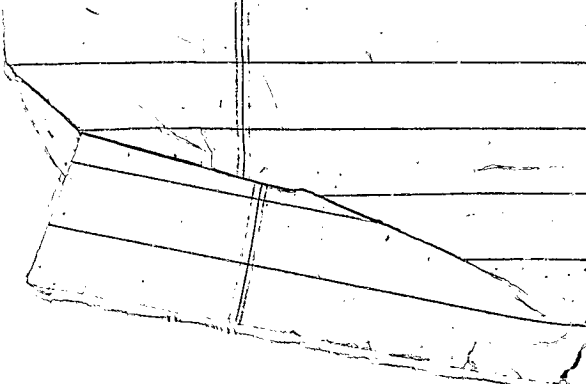
DEF. 1-17

2-34

3-51

5-08

CHORD LENGTH = 51.24 FT.



MARLIN HILLS.

<p>CURVE #1 -</p> <p>COTANG. OF 12-13 →</p> <p>R. TANG. →</p>	<p>ANGLE = $\frac{24-26}{2} = 12-13$</p> <p>TANGENT = 100 FT.</p> <p>RADIUS = 461.86' ϕ</p> <p>DEF. = 3-3-15 6-6-30 9-9-45 12-13-00 ϕ</p>	<p>CURVE #5 - ANGLE = $\frac{2-10}{2} = 1-05'$</p> <p>RADIUS = 5258.20'</p> <p>$\phi = .006$ TANGENT = 99.38 FT.</p> <p>DEF. = 16-15-10 32-30-20 48-45-30 1-05-1'</p> <p>EAST LINE</p> <p>CHORD LENGTHS = 4840 FT.</p> <p>LENGTH = 198.22 FT.</p> <p>ϕ</p>
<p>CURVE #2</p>	<p>ANGLE = $\frac{2-10}{2} = 1-05$</p> <p>TANGENT = 100 FT.</p> <p>RADIUS = 5288.21 ϕ</p> <p>DEF. = 16-15-10 32-30-20 48-45-30 1-05-1'</p> <p>ϕ</p>	<p>CURVE #6 = $\frac{50-34}{2} = 25-17$</p> <p>RADIUS = 128.78'</p> <p>TANGENT = 60.81 FT.</p> <p>E. LINE DEF. = 6-19-15 12-38-30 18-57-45 25-17-00</p> <p>$\phi = .14$</p> <p>CHORD LENGTHS = 28.35 FT.</p> <p>LENGTH = 113.28 FT.</p>
<p>CURVE #3 =</p>	<p>ANGLE = $\frac{50-34}{2} = 25-17$</p> <p>TANGENT = 75'</p> <p>RADIUS = 158.78'</p> <p>DEF. = 6-19-15 12-38-30 18-57-45 25-17-00 ϕ</p>	
<p>CURVE #4 =</p> <p>RAD. x TAN $\frac{1}{2} I - ?$</p> <p>$\phi = .068$</p>	<p>$\frac{24-26}{2} = 12-13$</p> <p>RADIUS = 491.86' EAST LINE</p> <p>TANGENT = 106.49'</p> <p>DEF. = 3-3-15 6-6-30 9-9-45 12-13-00</p> <p>CHORD LENGTHS = 52.53 FT.</p> <p>LENGTH = 210.15 FT.</p>	

$$\begin{array}{r} 4.6186 \\ 100 \\ \hline 4618600 \end{array}$$

$$\begin{array}{r} 12-13 = 6-6-30 = 3-3-15 \star \\ \hline 2 \qquad \qquad \qquad 2 \qquad \qquad \qquad 3-3-15 \\ \hline 6-6-30 \star \\ \hline 3-3-15 \\ \hline 9-9-45 \\ \hline 3-3-15 \\ \hline 12-13-60 \end{array}$$

$$52.882100$$

$$\begin{array}{r} 52.8821 \\ 100 \\ \hline 52882100 \end{array}$$

$$\begin{array}{r} 65 = 32-40'' \\ \hline 2 \qquad \qquad \qquad 2 = 16'-20'' \\ \hline 8 \qquad \qquad \qquad 8'-10 \end{array}$$

$$\begin{array}{r} 8-10'' \\ \hline 16-20'' \star \\ \hline 8-10 \\ \hline 24-30 \star \\ \hline 8-10 \\ \hline 32-40 \end{array}$$

$$\begin{array}{r} 2.1171 \\ 75 \\ \hline 103855 \\ 148197 \\ \hline 7587825 \end{array}$$

$$\begin{array}{r} 25 \quad 66 \\ 17 \end{array}$$

$$\begin{array}{r} 24-77 = 12-38-30 \star = 6-19-15 \\ \hline 2 \qquad \qquad \qquad 2 \end{array}$$

$$\begin{array}{r} 6-19-15 \star \\ \hline 6-19-15 \\ \hline 12-38-30 \star \\ \hline 6-19-15 \\ \hline 18-57-45 \star \\ \hline 6-19-15 \\ \hline 24-76-60 \end{array}$$

$$\begin{array}{r} 52.882100 \\ 100 \\ \hline 52882100 \end{array}$$

$$\begin{array}{r} 461.86 \\ 30 \\ \hline 461.86 \end{array}$$

$$\begin{array}{r} 52530648 \\ \hline 2 \\ 26265322 \\ 245930 \\ 147258 \\ 199744 \\ \hline 491.86 \end{array}$$

$$\begin{array}{r} 10497691 \\ 2586 \\ 98372 \\ 49167 \\ 295116 \\ 245930 \\ \hline 2165 \\ 491.86 \end{array}$$

0530

$$\begin{array}{r} 5288 \\ 30 \\ \hline 5258 \end{array}$$

$$\begin{array}{r} 400 \\ 369 \\ 769 \\ 267 \\ \hline 1656 \end{array}$$

$$\begin{array}{r} 5258.2 \\ 0189 \\ \hline 473238 \\ 420656 \\ \hline 52582 \\ \hline 10937998 \end{array}$$

$$\begin{array}{r} 128.78 \\ 4723 \\ \hline 58534 \\ 25756 \\ \hline 89846 \\ 51512 \\ \hline 60812694 \end{array}$$

$$\begin{array}{r} 5258.2 \\ 0046 \\ \hline 375492 \\ 20328 \\ \hline 2418772 \\ 2 \\ \hline 4837544 \end{array}$$

55.38

$$\begin{array}{r} 16-15+ \\ 16-15 \\ \hline 32-30+ \\ 16-15 \\ \hline 48-43+ \\ 16-15 \\ \hline 6460 \end{array}$$

$$\begin{array}{r} 128.78 \\ 1100 \\ \hline 1287800 \\ 12878 \\ \hline 4165800 \\ 2 \\ \hline 28331600 \end{array}$$

$$\frac{1-05}{2} = 30-$$

$$\frac{65}{2} = \frac{32-30}{2} = 16-15$$

$$\begin{array}{r} 158.78 \\ 30 \\ \hline 12878 \end{array}$$

MAELIN HILLS

PAVING FOR HILL ROAD

BOTTOM = 2" OF #63-ROLLED
 BEARING COURSE = 6" - #2-ROLLED
 KEYING SURFACE = 1" #11-ROLLED

CURVE #10

$$\text{ANGLE} = \frac{50-34}{2} = 25-17$$

$$\text{RADIUS} = 188.78 \text{ FT.}$$

$$\text{TANGENT} = 89.16 \text{ FT.}$$

$$\text{DEF.} = 6-10-15$$

$$12-38-30$$

$$18-57-45$$

$$25-17-00$$

$$\text{CHORD LENGTHS} = 41.53 \text{ FT.}$$

$$\text{LENGTH} = 166.07$$

CH

CURVE #11 - ANGLE = $\frac{3-12}{2} = 1-36$

$$\text{RADIUS} = \frac{3520}{2} \text{ FT. } 3550 \text{ FT.}$$

$$\text{TANGENT} = \frac{99.04}{2} = 38.21 \text{ FT.}$$

$$\text{DEF.} = 0-24$$

$$0-48$$

$$1-12$$

$$1-36$$

$$\text{CHORD LENGTHS} = 48.99 \text{ FT.}$$

$$\text{LENGTH} = 200.75 \text{ FT.}$$

CH

#12 -- ANGLE = $\frac{21-00}{2} = 10-30$

$$\text{RADIUS} = 599.55 \text{ FT.}$$

$$\text{TANG.} =$$

$$\text{DEF. } 2-37-30$$

$$5-15-00$$

$$7-52-30$$

$$10-30-00$$

CHORD LENGTH

CURVE #13 - ANGLE = $\frac{21-00}{2} = 10-30$

$$\text{RADIUS} = 539.55 \text{ FT.}$$

$$\text{TANGENT} = 100 \text{ FT.}$$

$$\text{DEF.} = 2-37-30$$

$$5-15-00$$

$$7-52-30$$

$$10-30-00$$

$$0.0058$$

$$\text{CHORD LENGTHS} = 49.20 \text{ FT.}$$

$$\text{LENGTH} = 196.62$$

CURVE #12

$$\text{ANGLE} = \frac{21-00}{2} = 10-30$$

$$\text{RADIUS} = 599.55 \text{ FT.}$$

$$\text{TANGENT} = 111.11 \text{ FT.}$$

$$\text{DEF.} = 2-37-30$$

$$5-15-00$$

$$7-52-30$$

$$10-30-00$$

$$\text{CHORD LENGTHS} = 54.87 \text{ FT.}$$

$$\text{LENGTH} = 218.47 \text{ FT.}$$

MARLIN HILLS

CURVE #1 - $\text{ANGLE} = \frac{90-36}{2} = 45-18$

TANGENT = 100 FT

RADIUS = 101.05 FT

DEF. = 11-19-30

22-39-00

33-58-30

45-18-00

CHORD LENGTH = 39.71

P

CURVE #2 - $\text{ANGLE} = \frac{90-36}{2} = 45-18$

RADIUS = 41.05 FT

TANGENT = 40.61 FT

(DEF. - SEE ABOVE)

CHORD LENGTHS = 8.06

101.0

A black and white line drawing of a dump truck with its bed raised, dumping a large pile of material (possibly gravel or sand) onto the ground. The truck is shown from a side profile, and the material is falling out of the back.

- [illegible]

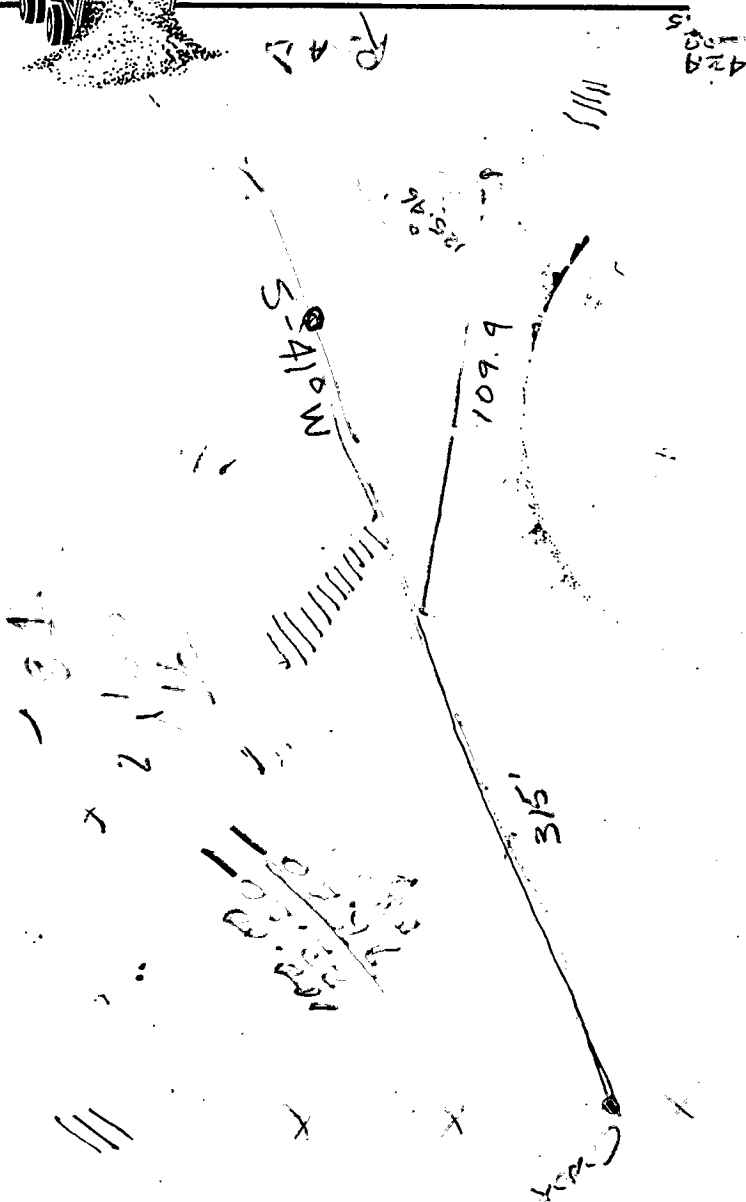
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